

FORM PTO-1449

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Attorney Docket Number	39943/PAN/C715
Application Number	09/871,492
Filing Date	May 31, 2001
Applicant(s)	Kent D. Choquette, et al.
Group Art Unit	<del>2881</del> 2815
Examiner Name	<del>To be Assigned</del> Matthew

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Mew	5,719,894	02/1998	Jewell et al.	372	45	
	5,719,895	02/1998	Jewell et al.	372	45	
	5,805,624	09/1998	Yang et al.	372	45	
	5,825,796	10/1998	Jewell et al.	372	45	
	5,903,589	05/1999	Jewell	372	46	
	5,912,913	06/1999	Kondow et al.	372	45	
	5,936,266	08/1999	Holonyak, Jr. et al.	257	106	
	5,960,018	09/1999	Jewell et al.	372	45	
↓	6,014,395	01/2000	Jewell	372	45	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
Mew	HEI 5 [1993]- 297128	06/1995	Japan	3	18	X	

## OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
Mew	J. BOUCART et al., 1-mW CW-RT Monolithic VCSEL at 1.55 $\mu$ m, IEEE PHOTONICS TECHNOLOGY LETTERS, June 1999, pp. 629-631, Vol. II, No. 6
	SHIRO SAKAI et al., Band Gap Energy and Band Lineup of III-V Alloy Semiconductors Incorporating Nitrogen and Boron, Jpn. J. Appl. Phys., October 1993, pp. 4413-4416, Vol. 32 Part 1, No. 10
↓	M. C. LARSON et al., GaInNAs-GaAs Long-Wavelength Vertical-Cavity Surface-Emitting Laser Diodes, IEEE PHOTONICS TECHNOLOGY LETTERS, February 1998, pp. 188-190, Vol. 10, No. 2

EXAMINER  
SIGNATURE

Matthew Wanner

DATE  
CONSIDERED

12/11/02

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Sheet 1 of 2

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	<b>Examiner Name</b>	To be Assigned Matthew

### OTHER DOCUMENTS

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MEW	MASAHIKO KONDOW et al., Gas-Source Molecular Beam Epitaxy of GaN <sub>x</sub> As <sub>1-x</sub> Using a N Radical as the N Source, Jpn. J. Appl. Phys., August 1994, pp. 1056-1058, Vol. 33, Part 2, No. 8A
MEW	MASAHIKO KONDOW et al., Room-Temperature Pulsed Operation of GaInN As Laser Diodes with Excellent High-Temperature Performance, Jpn. J. Appl. Phys., November 1996, pp. 5711-5713, Vol. 35, Part 1, No. 11

<b>EXAMINER SIGNATURE</b>	Matthew E. Warner	<b>DATE CONSIDERED</b>	12/11/02
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Examiner Name	To be Assigned <i>Matthew</i>

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - kind code <sup>2</sup> (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
<i>TKW</i>	1	4,908,686	03-13-1990	Maserjian
	2	5,424,559	06-13-1995	Kasahara
	3	5,557,627	09-17-1996	Schneider, Jr. et al.
	4	5,960,018	09-28-1999	Jewell et al.
<i>↓</i>	5	6,052,398	04-18-2000	Brillouet et al.

*Class sub class*

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup> (✓)

OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

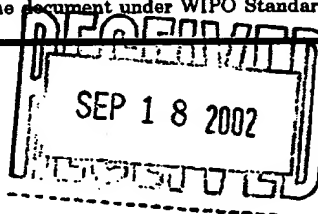
EXAMINER SIGNATURE	<i>Matthew Warner</i>	DATE CONSIDERED	<i>5/25/03</i>
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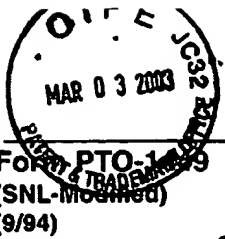
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Form PTO-1  
(SNL-Modified)  
(9/94)**SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

(37 CFR 1.98(b))

ATTY. DOCKET NO.  
39943/PAN/C715SERIAL NO.  
09/ 871,492APPLICANT  
Choquette et alFILING DATE  
May 31, 2001GROUP  
2815**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE

**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>NEW</i>	1	EP 0 822 630 A1	4/2/98	European Pat. Ofc.	H01S	3/085		
	2	WO 98/07218	2/19/98	WIPO PCT				

**OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)**

↓	1	K.L.Lear, A. Mar, K.D. Choquette, S.P. Kilcoyne, R.P. Schneider, Jr., and K.M. Geib, "High-Frequency Modulation of Oxide Confined Vertical Cavity Surface Emitting Lasers," <u>Electronics Letters</u> , vol. 32, pp. 457-458, 29 Feb. 1996.
	2	N. Ohnoki, F. Koyama and K. Iga, "Super-Lattice AlAs/AlInAs for Lateral-Oxide Current Confinement in InP-Based Lasers," <u>Journal of Crystal Growth</u> , vol. 195, pp. 603-608, 1998.

EXAMINER

*Matthew E. Warner*

DATE CONSIDERED

*5/25/03*

FORM PTO/SB/08A/B (10-01)  
Substitute for PTO-1449A/BINFORMATION DISCLOSURE  
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EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup> (✓)
Mew		EP 0 822 630 A1	02-04-1998	Hewlett-Packard Company	
		WO 98/07218	02-19-1998	W.L. Gore & Associates, Inc.	

## OTHER DOCUMENTS

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		LEAR K L ET AL. "High-frequency modulation of oxide-confined vertical cavity surface emitting lasers" ELECTRONICS LETTER, IEE STEVENAGE, GB, vol. 32, no. 5, 29 February 1996, pages 457-458
		OHNOKI N ET AL. "Super-lattice AlAs/AlInAs for lateral-oxide current confinement in InP-based lasers" JOURNAL OF CRYSTAL GROWTH, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, vol. 195, no. 1-4, 15 December 1998, pages 603-608

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